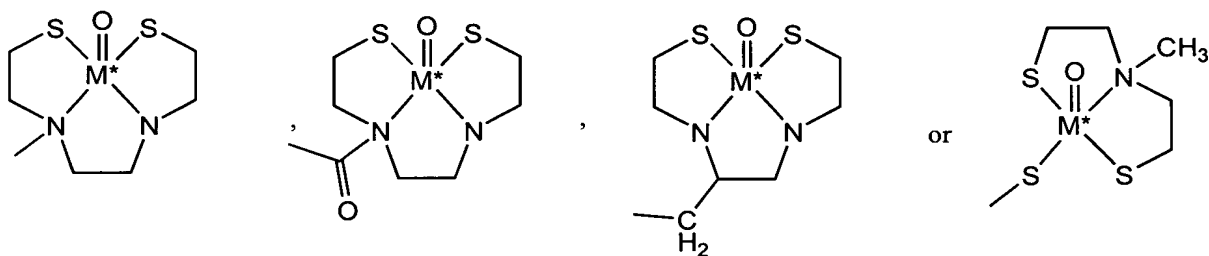


consisting of lower alkyl, $(CH_2)_nOR'$, CF_3 , CH_2-CH_2X , $O-CH_2-CH_2X$, $CH_2-CH_2-CH_2X$, $O-CH_2-CH_2-CH_2X$ (wherein $X=F$, Cl , Br or I), CN , $(C=O)-R'$, $(C=O)N(R')_2$, $O(CO)R'$, $COOR'$, $CR'=CR'-R_{ph}$ and $CR_2'-CR_2'-R_{ph}$ wherein at least one carbon is ^{11}C , ^{13}C or ^{14}C and a chelating group (with chelated metal group) of the form $W-L^*$ or $V-W-L^*$, wherein V is selected from the group consisting of $-COO-$, $-CO-$, $-CH_2O-$ and $-CH_2NH-$; W is $-(CH_2)_n$ where $n=0,1,2,3,4$, or 5 ; and L^* is:



wherein M^* is ^{99m}Tc .